

# Receiving Report

Date:

13/10/31

Batch No:

MN7334

Supplier:

McTAXX COSTCO

Dart P/O:

21808

Packing Slip: Yes  No  
 Invoice: Yes  No   
 Receipt: Cash  Cr

Release Note Attached: Yes  No  N/A   
 Waybill Attached: Yes  No  N/A   
 Shipment Complete: Yes  No  N/A   
 QC6 Inspection: OK 13/10/31  N/A   
 Work Order  N/A

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK)      Level 12

Production/Admin:  
 Date 13/10/31  
 Received/Costing  
 Initial C

Location

## Purchase Order Receipt Listing

October-31-13 9:27:44 AM

All Vendors P01 ID PO21555 All Receipt Dates All Line Item Types  
All Item ID/GL/WOS Attr Rec. Employees All Currencies  
Grouped by Vendor ID

All amounts are calculated in domestic currency.

Page 1 of 2

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
											117.1250

Total Received Quantity:  
 Total Qty to Inspect (PO U/M): 0.0000  
 Total Reject Quantity: 0.0000  
 Total Receipt Value: \$1,692.53  
 Total Balance Due Quantity: 0.0000



A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No: 1915555

<b>Expédié de / Ship From:</b>	<b>Vendu à / Sold To:</b>		
MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CAN	<b>Expédié à / Ship To:</b>
<b>Date d'expédition / Date Shipped</b>	<b>F.O.B.</b>	<b>Modalités de transport / Freight Terms</b>	<b>Livré à / Deliver To:</b>
11-OCT-2013	ORIGIN	Prepaid	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CAN
<b>Détails d'expédition / Shipment Details</b>			
<b>Nº de commande / Purchase Order No</b>	<b>Nº de ligne Line No</b>	<b>Nº d'article / Item No</b>	<b>Description</b>
3053708	4	14968.MO	1:0000.RD.1/CR-4NI STAINLESS.CF.SOL TR.COND A.132.0006-156.0000 CUT TO 149.249995506 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS 5643

<b>Détails d'expédition / Shipment Details</b>				<b>Destination finale / Final Destination Branch - MON</b>			
<b>Nº de bon de commande / Purchase Order No</b>	<b>Nbre de pièces / Part Number</b>	<b>Qté commandée / Ordered Qty</b>	<b>Qté Facturée / Invoice Qty</b>				
21555	SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99	5.00 PCS	62.1875 FT				
<b>Détails / Details</b>	13/13/13						
<b>Nº de livraison / Delivery No :</b>	<b>Usine / Mill</b>	<b>No de coulée / Heat Number</b>	<b>Code mécanique / Mech Id</b>	<b>Pièce s / PCS</b>	<b>Largeur (Pouce)/ Width (IN)</b>	<b>Longueur (Pouce)/ Length (IN)</b>	<b>Qté expédiée/ Shipped Qty(LBS)</b>
119234177		E8K6		5			166.0406

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des Etats-Unis. Si elles ont été exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contrarie aux lois des Etats-Unis est interdite.

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration & US State Dept. Reguliéssent et, si intended for export, were/are export contraind. Diversion contrary to US Law is Prohibited.

Tous les documents techniques sont soumis aux spécifications susmentionnées et aux exigences applicables pour le matériel couvert par cette certification et conformes aux spécifications faites pour la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera relayée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 11-OCT-2013 02:56:20 PM



A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

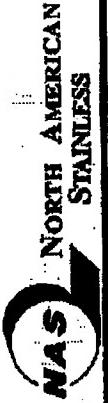
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été examiné et inspecté par \_\_\_\_\_

Reviewed by Authorized Castle Metals Representative:

Date: \_\_\_\_\_

Name: \_\_\_\_\_



## METALLURGICAL TEST REPORT

6870 Highway 42 East  
Ghent, KY 41045-9600  
(502) 347-6060

Certificate: 804250 03 Mail To:  
A-M. CASTLE AND COMPANY  
1426 MONTGOMERY ROAD-SUITE 220  
OAK HOOK IL 60523

Customer: 0032 001 Item Code: 14968  
SAC Order: LN 91484 1  
Your Order: 197515

### PRODUCT DESCRIPTION:

AMS 2303E, AMS 5643R  
Round Bar, Annealed, Smooth Turned, Cold Finished  
Tensile Strength, EN 10204 3.1, ASTM A48/A51/11  
ASME SA17400, EN 10204 3.1, ASME SA564-97, ASME F599/11 (Circles Only)  
AMS 5643R, MACHO CR  
SUGGESTION ANNEALED @ 1900°F MIN FOR 1 HR. MAX

### R E M A R K S :

COMPLIES W/ REQUIREMENTS OF DAFAR 252.225-7014A-1 ED DIRECTIVE  
2002.95. SEC.ROBS. DAFAR-ON+CC. NO WEIRD REPAIR, HEATED AND MFG  
IN USA FREE FROM NICKEL AND LOW MANGANESE ALLOY CONTAMINATION

*Orl 13/11/11*

| Bundle Weight |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| EP15951 1400  |               |               |               |               |               |               |               |

### CHEMICAL ANALYSIS

CH(Country of Met) ES(Spanish) US(United States) ZA(South Africa) JP(Japan)

### Chemical Analysis per ASTM A751/08

Test Supplier #	CH	C %	CB %	CO %	CR %	CU %	NH %	NO %	H %	NH %	NI %	P %
NSK6	US	.030	.296	.08	15.28	3.14	.79	.16	.045	4.33	.029	
		S %	SI %	71 %	71 %							
		.0235	.52	.0050	.0020							

### MECHANICAL PROPERTIES

1 d	HS	Ferrite %	YS-900CAP	YS-900CAP	ZI-900CAP	RA-900CAP	RC-900CAP	Yn900	Brv.
g 1	No.	ESI	ESI	ESI	ESI	ESI	ESI	No.	No.
EP15951	R 1	320.0	.01	200.25	178.56	15.43	50.90	44.0	.2500

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical  
Dept. Mgr.

ERIC HESS



A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No: 1915555

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA

Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier	No du Bon de connaissance / BOL No
11-OCT-2013	ORIGIN	Prepaid	LOCAL_FLEET	1915555-3

Détails d'expédition / Shipment Details		Destination finale / Final Destination Branch - MON	
N° de commande / Order No	N° de ligne Line No	N° d'article / Item No	Description

30533708	6	14981.MO	2.0000.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A-132:0000-156.0000 CUT TO 36 IN ( + .1250/- .0000 IN) - BAND SAW CUTTING SPECIFICATIONS: SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99
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N° de bon de commande / Purchase Order No	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
21555	SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99	2.00 PCS	6.0000 FT

N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code méc / Mech Id	Pièce s / PCS	Largeur (Pouce)/ Width (IN)	Longueur (Pouce)/ Length (IN)	Qté expédiée/ Shipped Qty(LBS)
119239209		F1M4		2			64.0779

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du Département d'État des États-Unis. Si elles ont été exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport, These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.  
Date Printed: 11-OCT-2013 02:56:20 PM

11/3/10/31



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

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contraind aux lois des Etats-Unis et interdites.

Ces communiqués techniques sont subjectifs au US Export Administration & US State Dept. Régulations and, if intended for export, were forwarded therewith. Diversion contrary to US Law is Prohibited.

Nous communiquons par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

Wie hierin certifiziert das Material, das unter dieser Zertifikation abgedeckt ist, mit den oben genannten Spezifikationen und den entsprechenden Anforderungen für das Material. Alle Berichterstattungen sind für die Abfrage aufzubewahren. Eine Anfrage bezüglich fehlerhaften Materialien wird abgelehnt, es sei denn sie wird schriftlich an A.M. Castle & Co. innerhalb von 60 Tagen nach Lieferung gestellt. Material, das auf Maß geschnitten oder vom Kunden geschnitten wurde, kann nicht gegen einen Kredit zurückgeschickt werden.

Tout rapport de test sera conservé pour fins de consultation. Toute demande concernant un matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A.M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

We hereby certify the material covered by this certification conforms to the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description.

Test reports are to be retained for reference. All claims for defective material will be rejected unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ca matériau a été autorisé et inspecté par  
Reviewed by Authorized Castle Metals Representative:

Name:	Date:
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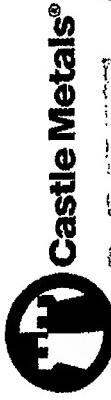
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Date Printed: 11-OCT-2013 02:56:20 PM



*Conrad*  
13/11/11

Castle Metals FP

ITEM NUMBER FIM4  
MECHANICAL ID   
ITEM CODE 14981  
LOT NUMBER   
PO NUMBER 2 (690)  
RECEIPT DATE 3-18-13  
SUPPLIER NAS  
SPECIFICATION N  
LOS N  
COMMENT b  
APPROVED b



A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

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Date d'expédition / Date Shipped	F.O.B. / Date Shipped	Modalités de transport / Freight Terms	Transporteur / Carrier
11-OCT-2013	ORIGIN	Prepaid	LOCAL_FLEET

Détails d'expédition / Shipment Details

Nº de commande / Order No	Nº de ligne Line No	Nº d'article / Item No	Description				
3053708	5	14976.MO	1.5000.RD/17CR-4NI STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 CLPF TO 145.5 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS 5643				
Nº de bon de commande / Purchase Order No	Nº de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty				
21555		1.00 PCS	12.1250 FT				
Détails / Details	SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99						
Nº de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code mécanique / Mech Id	Pièce s / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty(LBS)
119239221		742285		1			72.8713

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These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.  
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BORDEREAU DE MARCHANDISES

A. M. Castle & Co.

Page 2 of 2

For credit:	Co. material a été reçu et inspecté par
Reviewed by Authorized Castle Metals Representative:	

Date: Name:

CERTIFICATE OF TESTS  
CERT SERIAL# 000804279

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

**TALLEY METALS**  
A Carpenter CompanyTalley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC 29101 Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

01/30/12  
CUSTOMER/BESTELLER/CLIENT

SELLER/VERKAUFER/VENDEUR PAGE 1 OF 2

A.M. CASTLE & CO  
3400 N WOLF RD  
FRANKLIN PARK, IL 60131

TALLEY METALS TECH, INC.

ACCOUNTS PAYABLE  
P. O. BOX 2498  
HARTSVILLE, SC 29551

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENZ INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/Poids
156895-004	TLY990401 L14210	01/30/12	4678.000

HEAT NUMBER/SCHMELZE-NR./N° DE COULEE: 742285 UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH

SPECIFICATION: TALLEY 174-T1A CAP OF H900 (01/11/99)  
 -----  
 AMS 2303 REV F (08/ /10)  
 AMS 2315 REV F (01/ /08)  
 AMS 5643 REV R (02/ /08)  
 ASTM-A484-11  
 ASTM-AS64-10  
 ASME-SA564 2011 EDITION (TYPE 630)  
 ASTM-F899-11 (CHEM ONLY)

*MJ 1/3/11*

SIZE 1.500000 IN. ( 38.10 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN (XRF)	SI (XRF)	P (XRF)	S (COM)	CR (XRF)
0.030	0.84	0.39	0.017	0.023	15.16
NI (XRF)	MO (XRF)	CU (XRF)	N (FUS)	CB (XRF)	TA (XRF)
4.24	0.15	3.57	0.030	0.25	LT .02

CB+TA  
0.27THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES  
THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS  
OPERATIONS QUALITY PROGRAM MANUAL REVISION 30, DATED 09/28/11.

MILL HEAT TREATMENT:

TYPE	SOL ANL
TEMP	1900F ( 1037C)
TIME (CONT FCE)	1.08 HOURS
QUENCH	AIR



DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED, HBW - 347 (MIDRADIUS)

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0 UNKNOWN  
\*\*\*

MICROSTRUCTURE - FERRITE - NONE

CONTINUED ON NEXT PAGE

*(Pg. 1 of 2)*

CERTIFICATE OF TESTS  
CERT SERIAL# 000804279

## ABNAHMEPRUEFZEUGNIS

## CERTIFICAT DE CONTROLE

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A Carpenter CompanyTalley Metals Technology, Inc.  
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01/30/12  
CUSTOMER/BESTELLER/CLIENT

SELLER/VERKAUFER/VENDEUR PAGE 2 OF 2

A.M. CASTLE & CO  
3400 N WOLF RD  
FRANKLIN PARK , IL 60131TALLEY METALS TECH, INC.  
ACCOUNTS PAYABLE  
P. O. BOX 2498  
HARTSVILLE , SC 29551

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
156895-004	TLY990401 L14210	01/30/12	4678.000

HEAT NUMBER/SCHMELZE-NR./N° DE COULEE:  
**CAPABILITY**

742285

UNS NUMBER S17400

900 F ( 482 C ), 01 HR  
 (T) RANSVERSE (L) ONGRITUDINAL  
 YIELD STRENGTH, (0.20 %) KSI (MPA)  
 TENSILE STRENGTH, KSI (MPA)  
 ELONGATION IN 2.00", %  
 REDUCTION OF AREA, %  
 HARDNESS , HBW

L	182.0	1255)
	203.0	1400)
	15.0	
	47.0	
	403.0	

(CONVERTED FROM TENSILE STRENGTH)

*6/1/11*

NO WELD REPAIR PERFORMED  
 MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.  
 MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1,  
 SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.  
 THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN50049)

STEPHANIE E. MCCULLUM  
 QUALITY ASSURANCE ENGINEER  
 CARPENTER TECHNOLOGY CORPORATION

5669 AMC 3174-112



*Item code 14976  
Heat 742285*

*Pg. 2 of 2*

*Stephanie E. McCullum*



**Castle Metals®**

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

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Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier	No du Bon de connaissance / BOL No
11-OCT-2013	ORIGIN	Prepaid	LOCAL_FLEET	1915555-3

Détails d'expédition / Shipment Details		Destination finale / Final Destination Branch - MON			
N° de commande / Order No	N° de ligne Line No	N° d'article / Item No	Description		
3053708	3	14966.MO	0.7500.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND	A.132.0000-156.0000	CUT TO 144.75 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS 5643
N° de bon de commande / Purchase Order No	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté facturée / Invoice Qty		
21555	SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99	1.00 PCS	12/11/11	12.0625 FT	
N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code méc / Mech Id	Pièce s / PCS	Longueur (Pouce) / Length (IN)
119239133		G20683		1	

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été/exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contrarie aux lois des États-Unis est interdite. Ces marchandises/technologies sont sujettes au US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned.

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**Castle Metals®**

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

For credit.	
Ce marchandise a été reçu et inspecté par	
Reviewed by Authorized Castle Metals Representative:	
	Date: _____
	Name: _____

cmf 13/11/11

Castle Metals FP

HEAT NUMBER G 20683  
MECHANICAL ID   
ITEM CODE 14966  
LOT NUMBER   
PO NUMBER 231276  
RECEIPT DATE 9-16-13  
SUPPLIER JAI/EY  
SPECIFICATION   
LOS ND  
COMMENT   
APPROVED PL

**CERTIFICATE OF TESTS**  
CERT SERIAL# 000891223



Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

**ABNAHMEPRUEFZEUGNIS**

**CERTIFICAT DE CONTROLE**

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
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- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

09/13/13  
CUSTOMER/BESTELLER/CLIENT

SELLER/VERKAUFER/VENDEUR PAGE 1 OF 2

AM CASTLE & CO

3400 N WOLF RD  
FRANKLIN PARK IL 60131

HVL

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./HERKB-NR./N° DE REFERENZ INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/Poids
231276	W83528	09/13/13	1998.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULÉE: G20683 UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH  
PART NUMBER: IAC 14966

SPECIFICATION: CASTLE 3174-03 REV 25 (08/18/11)  
----- AMS 2303 REV F (08/10)  
AMS 5643 REV R (02/08) (UNS S17400) (AISI 630) 13/11/11  
ASTM-A564-10  
ASME-SA564 2011 EDITION

SIZE 0.750000 IN. ( 19.05 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN(XRF)	SI(XRF)	P (XRF)	S (COM)	CR(XRF)
0.03	0.78	0.34	0.023	0.024	15.21
NI(XRF)	MO(XRF)	CU(XRF)	N (FUS)	CB(XRF)	TA(XRF)
4.32	0.35	3.80	0.027	0.24	LT .01

CB+TA

0.25

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES

NO WELD REPAIR.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE  
CONTAMINATION.

EDDY CURRENT TEST PERFORMED

HOT REDUCTION RATIO = 14:1

MILL HEAT TREATMENT:

TYPE	SOL ANL
TEMP	1900F ( 1037C )
TIME (BATCH FURNACE)	1.30 HOURS
QUENCH	WATER

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED 294HBW ( 31HRC )

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE 1.20%

CONTINUED ON NEXT PAGE

CERTIFICATE OF TESTS  
CERT SERIAL# 000891223



**TALLEY METALS**  
A Carpenter Company

Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC 29101 Tel: (610) 208-2000 (800) 338-4592

ABNAHMEPRUEFZEUGNIS

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09/13/13  
CUSTOMER/BESTELLER/CLIENT

SELLER/VERKAUFER/VENDEUR PAGE 2 OF 2

AM CASTLE & CO

3400 N WOLF RD  
FRANKLIN PARK IL 60131

HVL

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
231276	W83528	09/13/13	1998.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:  
CAPABILITY

G20683

UNS NUMBER S17400

900 F ( 482 C ), 01 HR AIR COOL

HARDNESS 421HBW ( 45HRC )

*09/13/11*

(T)RANSVERSE (L)ONGITUDINAL	YIELD STRENGTH (0.20 %) KSI(MPA)	203.0 ( 1400 )
TENSILE STRENGTH, KSI(MPA)	207.0 ( 1427 )	
ELONGATION IN 1.40", %	11.0	
REDUCTION OF AREA, %	52.0	

NO WELD REPAIR PERFORMED  
MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.

THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. THIS CERTIFICATE OF TEST IS TYPE 3.1 PREPARED IN ACCORDANCE WITH EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

STEPHANIE E. MCCULLUM  
QUALITY ASSURANCE ENGINEER  
CARPENTER TECHNOLOGY CORPORATION

*Stephanie E. McCullum*

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.  
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keine Haftung für die ausgewiesenen Daten oder Zertifizierungen.  
Ce certificat est uniquement valable pour le client dont le nom est inscrit sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.



**Castle Metals®**

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No:1915555

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CAN	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA

Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier	No du Bon de connaissement / BOL No
11-OCT-2013	ORIGIN	Prepaid	LOCAL_FLEET	1915555-3

Détails d'expédition / Shipment Details

Destination finale / Final Destination Branch - MON

Nº de commande / Order No	Nº de ligne / Line No	Nº d'article / Item No	Description
3053708	2	14963-MO	0.6250.RD.17CR-4NI STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 CUT TO 51.999961538 IN ) - CUT IN 4TH'S SPECIFICATIONS: AMS 5643
21555			Qté commandée / Ordered Qty

Qté Facturée / Invoice Qty

1.00 PCS

12.6667 FT

Détails / Details  
SHIP TO: METCOR  
END USER: DART AEROSPACE  
END USE: COMMERCIAL AIRCRAFT PARTS

Nº de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code méc / Mech Id	Pièce s / PCS	Largeur (Pouce)/ Width (IN)	Longueur (Pouce)/ Length (IN)	Qté expédiée/ Shipped Qty(LBS)
119241047		SD0980-G14		1			13.1733

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client ne peut être retourné pour révision.  
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Date Printed: 11-OCT-2013 02:56:20 PM



A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description, or credit. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Certified by a duly authorized Inspector per:

Reviewed by Authorized Castle Metals Representative:

Date:

Name:

**GLORIA GROUP GLORIA MATERIAL TECHNOLOGY CORP.**  
**INSPECTION CERTIFICATE**

台南市新營區新中路35號  
NO.35,HSIN CHUNG RD.,HSIN YING,  
TAINAN,TAIWAN  
TEL:886-6-6520031  
FAX:886-6-6520088

Messrs: ENERGY STEEL PRODUCTS INC.

Order No: 201304062

FILE NO: 201304256-B

Grade: 17-4 PH / 630

Size: 0.625"

HEAT-Lot No: SD0980-G14

Condition: HR-Solution Annealed-Ground

P.O.NO.: PU2659

Date: 07/30/2013

Weight: 658.0KG 1450.64LB

P'cs: 112

6. ULTRASONIC TEST IS ACCEPTABLE PER ASTM A388/ A388M-11.

7. MATERIAL IS FREE FROM RESIDUAL RADIOACTIVITY.

8. CAPABILITY MECHANICAL PROPERTIES TESTED AS PER H900 CONDITION.

9. COUNTRY OF ORIGIN: TAIWAN.

10. ROLLING RATIO: 7.5:1..

Aug 13/2013

Castle Metals PP  
HEAT NUMBER SD0980-G14  
MECHANICAL ID 14963  
ITEM CODE 244324  
LOT NUMBER 9-30-13  
PO NUMBER ESP  
RECEIPT DATE 9-30-13  
SUPPLIER ESP  
SPECIFICATION TD  
LCS TD  
COMMENT DL  
APPROVED DL



Mars Wang  
QA SECTION  
Mars Wang  
Page 3 of 3

Our quality and environment management systems have been certified by AS9100, ISO9001 QMS, ISO14001 EMS, OHSAS18001 OH&S, and NADCAP. We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification. Inspection Certificate comply with EN 10204 3.1.



# GLORIA MATERIAL TECHNOLOGY CORP. INSPECTION CERTIFICATE

台南市新營區新中路35號  
NO.35,Hsin Chung RD.,HSIN YING,  
TAINAN,TAIWAN  
TEL:886-6-6520031  
FAX:886-6-6520088

Messis: ENERGY STEEL PRODUCTS INC.

Order No: 2013004062

FILE NO: 2013004256-B

Grade: 17-4 PH / 630

Size: 0.625"

HEAT-Lot No: SD0980-G14

Condition: HR-Solution Annealed-Ground

P.O.NO.: P02659

Date: 07/30/2013

Weight: 658.0KG 1450.64LB

P'cs: 112

## Chemical Composition (wt%)

	C	Si	Mo	P	S	Ni	Cr
Min.							
Max.	0.07	1.00	1.00	0.040	0.030	3.0	15.0
Result	0.02	0.47	0.65	0.029	0.001	5.0	17.5
						4.3	15.1
Mo		Ca	Co	Nb+Ta	N	Nb	Ta
Min.		3.0		0.15		SC	
Max.	0.5	5.0		0.45		0.45	
Result	0.2	3.4	0.055	0.22	0.018	0.22	0.0016

## Mechanical Properties Spec.

	Hardness	Grain Size	Delta-Ferrite
	ASTM E112	ASTM 2315	
Spec. Min.	1/2R	T	L
Spec. Max.	363HBW	58	
Result	322HBW	7.5	0.3%

GLORIA 13/11/13

## H900 Hardness(Ave)

	H900	
Spec. Min.	1/2R L	
Spec. Max.	40HRC	
Result	47HRC	
	43HRC	

## Macro Etching

	Macro Etch	Macro Etch
	ASTM E381	ASTM E381
Spec.	B	T
Result	S-2,R-2,C-2	S-2,R-2,C-2

9/14/13

9/14/13



Mars Wang
QA SECTION
Mars Wang
Page 1 of 3

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1C- 14963

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**INSPECTION CERTIFICATE**

台南市新營區新中路35號  
NO.35,HSDN CHUNG RD.,HSIN YING,  
TAINAN,TAIWAN  
TEL:886-6-6520031  
FAX:886-6-6520088

Messrs: ENERGY STEEL PRODUCTS INC.

Order No: 2013004062

FILE NO: 2013004256-B

Grade: 17-4 PH / 630

Size: 0.625"

HEAT-Lot No: SD0980-G14

Condition: HR-Solution Annealed-Ground

P.O.NO.: P02659

Date: 07/30/2013

Weight: 658.0KG 1450.64LB

P'cs: 112

Tensile Test

	Blongation(A)	Tensile Strength(Rm)	Yield Strength(0.2% Rp)	Reduction of Area(Z)
	H900	H900	H900	H900
	1/2R L	1/2R L	1/2R L	1/2R L
	(Ave)	(Ave)	(Ave)	(Ave)
Unit	%	KSI	KSI	%
Min.	10	190	170	40
Max.				
Result	15	205	182	49

13/11/11

Heat Treatment Condition

Condition Temperature Time/hour Treatment  
SOLUTION 1900°F 1.0001 FAST COOLING TO BELOW 90 DEGREE F

Non-Metallic Inclusions :AMS 2303E  
Severity Frequency

Seat	Max.	0.35	0.4
Result	0	0	

Specification:

1. ASTM A370-12.
2. ASTM A484/ A484M-12.
3. ASTM A564/ A564M-10.
4. ASTM A388/ A388M-11.
5. ASTM B112-10.
6. AMS 5643R.
7. AMS 2303F (Meg particle test).
8. ASME SA564/ SA564M.
9. ASME SA484/ SA484M.
10. EN 10204 3.1.
11. ENBRGY SPBC. SS1. REV.5.1 OCT. 1 2011.

Remark:

1. MANUFACTURING PROCESS: EAF+LHP+VOD. FORGED OR HOT ROLLED.
2. SOLUTION TREATMENT AT 1900 DEGREES F. FAST COOLING TO BELOW 90 DEGREE F.
3. MATERIAL IS FREE FROM KNOWN CONTACT WITH MERCURY AND RADIUM.
4. MACRO/ MICRO STRUCTURE OK.
5. MATERIAL IS FREE FROM WELDS OR WELDING REPAIRS.

Mars Wang
QA SECTION
Mars Wang
Page 2 of 3



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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

No de Formulaire d'Emballage / Shipment No: 1915555  
Page 1 of 2

<b>Expédié de / Ship From:</b> MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	<b>Vendu à / Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	<b>Expédié à / Ship To:</b> DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CAN	<b>Livré à / Deliver To:</b> METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA
<b>Date d'expédition / Date Shipped</b> 11-OCT-2013	<b>F.O.B.</b> ORIGIN	<b>Modalités de transport / Freight Terms</b> Prepaid	<b>Transporteur / Carrier</b> LOCAL_FLEET
			<b>No du Bon de connaissance / BOL No</b> 1915555-3

Détails d'expédition / Shipment Details

N° de commande / Purchase Order No		N° de ligne Line No	N° d'article / Item No	Description	Destination finale / Final Destination Branch - MON
3053708	1	14961.MO		0.5000.RD.17CR-4NI STAINLESS.CF.SOL TR.COND A.144.0000 CUT TO 145.00005988 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS-5643	
<b>N° de bon de commande / Purchase Order No</b>		<b>Nbre de pièces / Part Number</b>		<b>Qté commandée / Ordered Qty</b>	<b>Qté Facturée / Invoice Qty</b>
21555		SHIP TO METCOR	1.00 PCS		12.0833 FT <i>13/11/11</i>

Détails / Details

END USER: DART AEROSPACE  
END USE: COMMERCIAL AIRCRAFT PARTS  
ECCN # EAR99

N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code mécanique / Mech Id	Pièce s / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty(LBS)
11924-1047		G20408		1			8.0717

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Date Printed: 11-OCT-2013 02:56:20 PM



**Castle Metals®**

A. M. Castle & Co.

**BORDEAU DE MARCHANDISES**

Page 2 of 2

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Ce matériel a été inspecté par	Reviewed by Authorized Castle Metals Representative
Reviewed by:	Date:
Name:	

APPROVED *62*  
COMMENT *11/11/06*  
LOS *10*  
SPECIFICATION  
SUPPLIER *5-6713*  
RECEIPT DATE *208423*  
PO NUMBER  
LOT NUMBER  
ITEM CODE *14961*  
MECHANICAL ID  
HEAR NUMBER *G 208408*  
CASTLE MECHANICALS F.P.

CERTIFICATE OF TESTS  
CERT SERIAL# 000872595



Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC 29101 Tel: (610) 208-2000 (800) 338-4592

ABNAHMEPRUEFZEUGNIS

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05/03/13  
CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDRUR PAGE 1 OF 2

AM CASTLE & CO

CARPENTER TECHNOLOGY CORP

3400 N WOLF RD  
FRANKLIN PARK IL 60131

101 W. BERN STREET  
READING, PA 19601

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEMEHT/POIDS
208422	W73951	05/03/13	1792.000

HEAT NUMBER / SCHMELZ-NR. / N° DE COULÉE: G20408 UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH  
PART NUMBER: IAC 14961

SPECIFICATION: CASTLE 3174-01 CAP OF COND. H900 REV 33 (08/18/11)  
----- AMS 2303 REV F {08/10}  
AMS 5643 REV R {02/08} (UNS S17400) (AISI 630)  
ASTM-A564-10  
ASME-SA564 2011 EDITION

*[Signature]*  
13/11/11

SIZE 0.500000 IN. ( 12.70 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN(XRF)	SI(XRF)	P (XRF)	S (COM)	CR(XRF)
0.03	0.80	0.36	0.021	0.025	15.20
NI(XRF)	MO(XRF)	CU(XRF)	N (FUS)	CB(XRF)	TA(XRF)
4.15	0.35	3.70	0.031	0.22	LT .01

CB+TA  
0.23

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES  
NO WELD REPAIR.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE  
CONTAMINATION.

EDDY CURRENT TEST PERFORMED

HOT REDUCTION RATIO = 81:1

MILL HEAT TREATMENT:

TYPE SOL. ANL  
TEMP 1900F ( 1037C )  
TIME (BATCH FURNACE) 1.30 HOURS  
QUENCH WATER

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED 311HBW ( 33HRC )

TENSILE STRENGTH, KSI(MPA) 148.0( 1020)  
ELONGATION IN 2.00% 13.0  
REDUCTION OF AREA, % 54.0

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE .74%

CONTINUED ON NEXT PAGE

CERTIFICATE OF TESTS  
CERT SERIAL# 000872595



Talley Metals Technology, Inc.  
205 Talley Metals Lane  
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

05/03/13  
CUSTOMER/BESTELLER/CLIENT

SELLER/VERKÄUFER/VENDEUR PAGE 2 OF 2

AM CASTLE & CO

CARPENTER TECHNOLOGY CORP

3400 N WOLF RD  
FRANKLIN PARK IL 60131

101 W. BERN STREET  
READING, PA 19601

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
208422	W73951	05/03/13	1792.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULÉE:  
CAPABILITY

G20408

UNS NUMBER S17400

900 F( 482 C), 01 HR

AIR COOL

*GML 13/11/11*

HARDNESS 421HBW ( 45HRC )

(T) RANSVERSE (L) ONGITUDINAL	L
YIELD STRENGTH (0.20 %) KSI (MPA)	207.0 { 1427 }
TENSILE STRENGTH, KSI (MPA)	207.0 { 1427 }
ELONGATION IN 1.99", %	15.0
REDUCTION OF AREA, %	49.0

NO WELD REPAIR PERFORMED  
MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.  
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

TIMOTHY DUVALL  
QUALITY ASSURANCE REP.  
CARPENTER TECHNOLOGY CORPORATION

*J. D. Duvall M. Seale*

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.  
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die ausgewiesenen Daten oder Zertifizierungen.  
Ce certificat est uniquement valable pour le client dont le nom est inscrit sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID **PO21555**

Purchase Order Date 10/2/2013  
PO Print Date 10/2/2013

Page Number 1 of 3

**Order From :** VC-MET001  
METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720  
P.O. BOX 4090 STN A  
TORONTO, ON M5W 0E9  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**  
Oct 3/10/2013

**Contact Name**  
**Vendor Phone** 514 694 9575  
  
**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

*No 7337*

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M174PH-H900R0.500	17-4SS H900 ROUND BAR 0.500	10/16/2013		12.00	\$11.45	\$137.40
			Yes		f 12.0833		
			10/16/2013				

MATERIAL: 17-4 PH COND. H900  
AS PER AMS 5643

NOTE:  
PLEASE SHIP MATERIAL TO METCOR INC.  
560 BOULV. ARTHUR SAUVE  
SAINT-EUSTACHE, QC  
J7R-5A8  
450-473-1884

2	M174PH-H900R0.625	17-4 SS H900 ROUND BAR 0.625	10/16/2013	12.00	Line Total: 12.667	\$12.99	\$155.88
			Yes	f			
			10/16/2013				

AS ABOVE

*10/13/13*

Note:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO21555**

Purchase Order Date 10/2/2013  
PO Print Date 10/2/2013

Page Number 2 of 3

**Order From :** VC-MET001  
METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720  
P.O. BOX 4090 STN A  
TORONTO, ON M5W OE9  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 514 694 9575  
**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

					<b>Line Total:</b>	<b>\$155.88</b>
3	M174PH-H900R0.750	17-4 SS H900 ROUND BAR 0.750"	10/16/2013	12.00		\$13.98
			Yes	f	12.0625	\$167.76
			10/16/2013			
AS ABOVE						
					<b>Line Total:</b>	<b>\$167.76</b>
4	M174PH-H900R1.000	17-4SS H900 ROUND BAR 1.00	10/16/2013	60.00	62.1875	\$10.02
			Yes	f		\$601.20
			10/16/2013			
AS ABOVE						
					<b>Line Total:</b>	<b>\$601.20</b>
5	M174PH-H900R1.500	17-4SS H900 ROUND BAR 1.500	10/16/2013	12.00	12.1250	\$29.33
			Yes	f		\$351.96
			10/16/2013			
AS ABOVE						

**Note:**



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO21555**

Purchase Order Date 10/2/2013  
PO Print Date 10/2/2013

Page Number 3 of 3

**Order From :** VC-MET001  
METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720  
P.O. BOX 4090 STN A  
TORONTO, ON M5W OE9  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 514 694 9575  
  
**Ship To Contact**,  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

				<b>Line Total:</b>	\$351.96
6	M174PH-H900R2.000	17-4SS H900 ROUND BAR 2.000	10/16/2013	6.00 ✓	\$48.92
			Yes	f	\$293.52
			10/16/2013		

AS ABOVE

		<b>Line Total:</b>	\$293.52
--	--	--------------------	----------

	<b>PO Total:</b>	\$1,707.72
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**Note:** Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required -  YES NO  
PST# 6122-5207

Change Nbr: 1

Change Date: 10/2/2013

## Purchase Order Receipt Listing

Thursday, November 07, 2013 9:32:19 AM

All amounts are calculated in domestic currency.

Page 1 of 1

All Vendors PO ID PO21559 All Receipt Dates All Line Item Types  
All Item ID/GL/WCS All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name PO21559 CAD	1 No	VC-MET004 71475-25 HEAT TREAT H900 127333	Metcor Inc. Each		10/31/2013 1.0000	11/7/2013 LAV001	1.0000 \$544.56	0.0000 0.0000	0 0	\$544.56	

Total Received Quantity:  
Total Qty to Inspect (PO U/M):  
0.0000  
Total Reject Quantity:  
0.0000  
Total Receipt Value:  
\$544.56  
Total Balance Due Quantity:  
0.0000

# METCOR INC.

560 BOUL. ARTHUR-SAUVÉ  
ST-EUSTACHE, QC J7R 5A8  
Tel: 450-473-1884 / Fax: 450-491-5498

## Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shipper
190288	1	75964

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

### DART AEROSPACE

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
Ph: 613-632-5200  
Fax: 613-632-1053

### LIVRÉ À /Shipped To

### DART AEROSPACE

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
Ph: 613-632-5200  
Fax: 613-632-1053

COMMANDÉ DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
PO21559		17-4PH	2013/10/16	tst

QUANTITÉ Quantity	No. PIÈCE / NOM DE LA PIÈCE Part No. Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
----------------------	---	---	-----------------

38 71475-25 336,

(1) ROUND BAR  
REFERENCE 71425-25

CONTENANT: 1 BOÎTE DE BOIS

TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
BOITE DE BOIS	1	

## CERTIFICAT

EMPAQUETAGE Packing	
------------------------	--

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 38

POIDS EXPÉDIÉ / Weight Shipped : 336,00

QUANTITÉ RESTANTE / Quantity Remaining : 0

POIDS RESTANT / Weight Remaining : 0,00

## CERTIFICAT

QUANTITÉ EXPÉDIÉE /Quantity Shipped:	38
POIDS EXPÉDIÉ / Weight Shipped :	336,00

Signature:

Date:

EXPÉDIÉ LE / Shipped On : 2013/10/25



# Metcor Inc.

560, boul. Arthur-Sauvé, St-Eustache (Québec) J7R 5A8

Tél. 450 473-1884

Télécopieur/Fax administration 450 491-5498

Télécopieur/Fax production 450 491-6454

## Rapport d'Inspection Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
190288	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer no.	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO21559		17-4PN		

### SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 2750/3 REV.E

EXIGENCE / requirement	SPECIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	AU - 47 - HRC	38	44.0 - 46.0 - HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
38	336	71475-25 (1) ROUND BAR REFERENCE 71425-25  CONTENANT: 1 BOÎTE DE BOIS

COMMENTAIRES / comments

25/10/2013

CERTIFIÉ par / Certified by:

DATE: 2013-10-25



**METCOR INC.**

560 BOUL. ARTHUR-SAUVÉ  
ST-EUSTACHE, QC, J7R 5A8  
Tel.: 450 473-1884 / Téléc. / Fax : 450 491-5498

**Certificat de Conformité**

Certificate of Compliance

<b>BON DE TRAVAIL</b> order	<b>CHARGEMENT</b> load
190288	1

CLIENT / customer 215

DART AEROSPACE  
1270 ABERDEEN  
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE  
1270 ABERDEEN  
HAWKESBURY

ON K6A 1K7

1

COMMANDÉ DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO21559		17-4PH		
<b>SPÉCIFICATIONS DU PROCÉDÉ</b> processing specifications				
AGE HARDEN				
CONDITION H 900				
SAE AMS 2759/3 REV.E				
EXIGENCE / requirement	SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed		RÉSULTATS DE TESTS / results	
HARDNESS	40 - 47 HRC		38	44.0 - 46.0 HRC
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
38	336	71475-25 (1) ROUND BAR REFERENCE 71425-25  CONTENANT: 1 BOÎTE DE BOIS		

#### COMMENTAIRES / comments

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec AMS2759.

Le TT a été fait tel que requis par AMS2759 et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été fait par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec AMS2759 et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of AMS2759.

All HT operations were in compliance with AMS2759 and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with AMS2759 and the purchase order and was found to meet the requirements.

CERTIFIÉ par / Certified by:

*Jacbel Oto*



DATE: 2013-10-25



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID **PO21559**

Purchase Order Date 10/2/2013

PO Print Date 11/7/2013

Page Number 1 of 1

**Order From :** VC-MET004

METCOR INC.  
560 BOUL. ARTHUR SAUVE  
SAINT-EUSTACHE, QC J7R 5A8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

*REVISED \$*

**Contact Name**  
**Vendor Phone** 450 473 1884  
  
**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** TST ground  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	71475-25	HEAT TREAT H900	10/31/2013 Yes 11/8/2013	1.00 Each			\$567.84	\$567.84
		17-4 PH ROUND BAR SENT FROM METAUX CASTLE P/O:21555 FINISH HEAT TREAT TO COND-H900 FTY IN EXCESS OF 170ksi FTU IN EXCESS OF 190ksi PER AMS2759/3						

PLEASE ADVISE PRICE \$\$\$\$\$\$ FOR LOT OF MATERIAL

**Line Total:** **\$567.84**

**PO Total:** **\$567.84**

*CL*

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required  YES  NO  
PST# 6122-5207